ISSN 0815-9319

Journal of

Gastroenterology and Hepatology

Volume 15
2000

EDITORS
WF DOE, GC FARRELL, KL GOH, H ISHII,
S KAWANO, SK LAM, SD LEE, YF LIAW,
G McCAUGHAN, N TALLEY, K OKUDA,
S SARIN, N SATO, RK TANDON

b
Blackwell
Science
Asia

Journal of

Gastroenterology and Hepatology

EDITORS-IN-CHIEF
SK Lam, *Hong Kong*
K Okuda, *Chiba*

SENIOR EDITORS
Gastroenterology
WF Doe, *Birmingham*
N Sato, *Tokyo*
RK Tandon, *New Delhi*

Hepatology
G Farrell, *Sydney*
YF Liaw, *Taipei*

EDITORS
Gastroenterology
KL Goh, *Kuala Lumpur*
S Kawano, *Osaka*
N Talley, *Sydney*

Hepatology
H Ishii, *Tokyo*
SD Lee, *Taipei*
G McCaughan, *Sydney*
S Sarin, *New Delhi*

SECTION EDITORS
Images of Interest
M Ebara, *Chiba*
IC Roberts-Thomson, *Adelaide*
K-P Wong, *Sydney*
N Young, *Sydney*

SPECIAL EDITION
China
SK Lam, *Hong Kong*
B-E Wang, *Beijing*

FOUNDING EDITORS
SK Lam, *Hong Kong*
K Okuda, *Chiba*
LW Powell, *Brisbane*
DJC Shearman, *Adelaide*

INTERNATIONAL ADVISORY PANEL
MA Al Karawi, *Riyadh*
SZ Alvarez, *Manila*
M Asaka, *Sapporo*
A Burt, *Newcastle-upon-Tyne*
YK Chawla, *Chandigarh*
DS Chen, *Taipei*
MF Chen, *Taipei*
PH Chen, *Taipei*
CH Cho, *Hong Kong*
H-J Choi, *Seoul*
CM Chu, *Taipei*
GJ Cleghorn, *Brisbane*
J Dent, *Adelaide*
ST Fan, *Hong Kong*
KM Fock, *Singapore*
S Friedman, *San Francisco*
R Fujita, *Yokohama*
K Fujiwara, *Tokyo*
E Gane, *Auckland*
E Gowans, *Brisbane*
M Gracey, *Perth*
N Hayashi, *Osaka*
Y Hiki, *Sagamihara*
J Ho, *Hong Kong*
M Horowitz, *Adelaide*
H-C Hsu, *Taipei*
PJ Hu, *Guangzhou*
M Imawari, *Tochigi*
DB Jones, *Sydney*
G Kajiyama, *Hiroshima*
S Kakuma, *Aichi*
JY Kang, *London*
M Kew, *Johannesburg*
ST Kew, *Kuala Lumpur*
M Khan, *Bangladesh*
CY Kim, *Seoul*
K Kimura, *Tochigi*
M Kitajima, *Tokyo*
K Kiyosawa, *Nagano*
K Kobayashi, *Kanazawa*
M Kojiro, *Kurume*
P Kullavanijaya, *Bangkok*
CL Lai, *Hong Kong*
M-Y Lai, *Taipei*
J Lambert, *Melbourne*
J Lau, *Florida*
D Lebrec, *Clichy*
SP Lee, *Seattle*
N Leung, *Hong Kong*
YY Li, *Guangzhou*
J Louw, *Cape Town*
T Miwa, *Isehara*
M Murray, *Sydney*
SR Naik, *Lucknow*
Y Nakanuma, *Kanazawa*
M Nishioka, *Kagawa*
PE O'Brien, *Melbourne*
M Omata, *Tokyo*
GZ Pan, *Beijing*
S Pan, *Taipei*
H Qureshi, *Karachi*
BS Ramakrishna, *Vellore*
SM Shrestha, *Kathmandu*
N Sohendra, *Hamburg*
K Sugano, *Tokyo*
J Sung, *Hong Kong*
A Terano, *Tokyo*
T Tsuji, *Okayama*
A Watanabe, *Toyama*
S Watanabe, *Tokyo*
SJ Williams, *Sydney*
J Wong, *Hong Kong*
S-D Xiao, *Shanghai*
J-Y Xu, *Shanghai*
T Yamakawa, *Kawasaki*
Y Yamashiro, *Tokyo*
M Yano, *Nagasaki*
GB Yao, *Shanghai*
ND Yeomans, *Melbourne*
TP Yin, *Kuala Lumpur*
ZT Zheng, *Beijing*

Adopted as the official publication of the Asian Pacific Association for the Study of the Liver and the Asian Pacific Association of Gastroenterology and an affiliated publication of the Association for the Study of the Liver, Bangladesh, Gastroenterological Society of Australia, the Hong Kong Society of Gastroenterology and the Thailand Gastroenterology Association. The *Journal of Gastroenterology and Hepatology* is covered by *ADONIS, BIOSIS Database, CAB Abstracts, CancerLIT, Chemical Abstracts Service, CHID/National Digestive Diseases Information Clearinghouse, Current Contents/Clinical Medicine, Current Contents/Life Sciences, Current Science (Current Opinion in Gastroenterology), Elsevier BIOBASE/Current Awareness in Biological Sciences EMBASE/Excerpta Medica, Falk Foundation e.V.: Hepatology Rapid Literature Review, Index Medicus, InfoMed, Inpharma Weekly, International Nursing Index, Janssen Library Gastroenterology, Journals@Ovid, Medical Documentation Service, MEDLINE, Reactions Weekly, Research Alert, Science Citation Index, SciSearch, UnCover, University Microfilms and World Digestology Network.*

Aims and Scope *Journal of Gastroenterology and Hepatology* publishes peer-reviewed original papers, reviews and editorials concerned with clinical practice and research in the fields of hepatology, gastroenterology and endoscopy. Papers cover the medical, radiological, pathological, biochemical, physiological and historical aspects of the subject areas under the headings 'Liver and Biliary', 'Alimentary Tract and Pancreas', 'Special Reports', 'Editorial Comments', 'Brief Communications' and 'Case Reports'. The Journal also deals with the basic sciences and experimental work. Case reports will only be published in exceptional circumstances and then only usually as a letter to the editor. All submitted papers are reviewed by at least two referees expert in the field of the submitted paper.

Editorial Office *Journal of Gastroenterology and Hepatology*, PO Box 378, Carlton South, Vic. 3053, Australia. Tel: +61 3 9347 0300, Fax: +61 3 9347 5001.
Editorial Assistant: Roisin Stewart,
Email: Roisin.Stewart@blacksci-asia.com.au
Production Editor: Katrina Lok
Email: Katrina.Lok@blacksci-asia.com.au

This journal is printed on acid-free paper.

Visit the Journal website at www.blackwell-science.com/jgh

Subscriptions and Advertising Bookings *Journal of Gastroenterology and Hepatology* is published 12 times per year. The subscription rates for 2000 are A$1000 (Australasia) or US$660 (elsewhere) per annum, post free. Australian subscribers should add A$100 to cover the GST for 2000. The Journal is dispatched to subscribers outside Australia by TNT Mailfast. All matters relating to subscriptions, advertisement bookings, back issues, offprints and general enquiries should be sent to Blackwell Science Asia Pty Ltd at the Editorial Office or by Email: info@blacksci-asia.com.au or via the Blackwell Science Asia Home Page at http://www/blackwell-science.com/australi/

Copyright and Photocopying © 2000 Blackwell Science Asia Pty Ltd. Authorization to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by Blackwell Science Asia for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of US$15.00 per copy is paid directly to CCC, 222 Rosewood Drive, Danvers, MA 01923, USA. This consent does not extend to other kinds of copying, such as copying for general distribution for advertising or promotional purposes, for creating new collective works or for resale. Special requests should be addressed to the Publisher. 0815-9319/00 US$15.00.

Contents

Volume 15 Number 1 January 2000

Editorials

1 Heartburn and reflux oesophagitis *JM Duggan and A Duggan*
See article on page 35

3 Autoimmune disease overlaps and the liver: Two for the price of one? *IR Mackay*
See article on page 95

Reviews

9 Hepatitis E: An overview and recent advances in clinical and laboratory research *R Aggarwal and K Krawczynski*

21 Percutaneous endoscopic gastrostomy: A review of indications, complications and outcome *FB Nicholson, MG Korman and MA Richardson*

Oesophagogastroduodenal Diseases and Pathophysiology

26 Dilatation of benign oesophageal strictures: 10 years' experience with Celestin dilators *A Duseja, YK Chawla, RP Singh, TR Sharma, U Kaur and JB Dilawari*

30 Secondary oesophageal peristalsis in gastro-oesophageal reflux disease *CG Pai*

35 Heartburn: Community perceptions *TD Bolin, MG Korman, J Hansky and R Stanton*
See editorial on page 1

40 Evaluation of autonomic nervous function in patients with essential hypertension, complicated with peptic ulcer *M Yukinaka, M Nomura, T Saijyo, T Nada, H Miyajima, Y Kondo, K Saito, Y Nakaya and S Ito*

45 Augmentative effects of L-cysteine and methylmethionine sulfonium chloride on mucin secretion in rabbit gastric mucous cells *T Watanabe, S Ohara, S Miyazawa, K Saigenji and K Hotta*

Diarrhoea in Children

53 Genetically distinct strains of *Candida albicans* with elevated secretory proteinase production are associated with diarrhoea in hospitalized children *LT Mathaba, AE Paxman, PB Ward, DA Forbes and JR Warmington*

Ulcerative Colitis

61 Characterization of antibody responses against rectal mucosa-associated bacterial flora in patients with ulcerative colitis *H Matsuda, Y Fujiyama, A Andoh, T Ushijima, T Kajinami and T Bamba*

Autoimmune Hepatitis

69 Increase in CD95 (Fas/APO-1)-positive $CD4^+$ and $CD8^+$ T cells in peripheral blood derived from patients with autoimmune hepatitis or chronic hepatitis C associated with autoimmune phenomena *S Ogawa, K Sakaguchi, A Takaki, K Shiraga, T Sawayama, H Mouri, M Miyashita, N Koide and T Tsuji*

Hepatocyte Growth Factor and Hepatobiliary Diseases

76 Plasma human hepatocyte growth factor concentrations in patients with biliary obstruction *F Kimura, M Miyazaki, T Suwa, T Sugiura, T Shinoda, H Itoh, S Ambiru, H Shimizu and K Nakagawa*

83 Hepatocyte growth factor/scatter factor enhances the thrombopoietin mRNA expression in rat hepatocytes and cirrhotic rat livers *K Yamashita, H Matsuoka, T Ochiai, R Matsushita,Y Kubuki, M Suzuki and H Tsubouchi*

Images of Interest

93 Gastrointestinal: Choledochoduodenal fistula

91 Hepatobiliary and pancreatic: Malaise and jaundice

94 Hepatobiliary and pancreatic: Commentary

Case Reports

95 Autoimmune cholangitis with features of autoimmune hepatitis: Successful treatment with immunosuppressive agents and ursodeoxycholic acid *C-P Li, MJ Tong, S-J Hwang, J-C Luo, RL Co, SH Tsay, F-Y Chang and S-D Lee*
See editorial on page 3

99 Burkitt's lymphoma associated with *Helicobacter pylori* *C Shannon, C Vickers, A Field and R Ward*

104 **Notices**

Abstracts

A1 Inaugural Scientific Symposium of the Centre of Alimentary Research and Education in conjunction with 'Controversies in Gastrointestinal Pharmacology': International Union of Pharmacology

Volume 15 Number 2 February 2000

Editorial

105 Membrane-bound, ATP-dependent energy systems and tissue hypoxia in human gastric mucosa *G Mózsik, M Figler and G Rumi*
See article on page 127

Review

109 Apoptosis in the intestinal epithelium: Its relevance in normal and pathophysiological conditions *A Ramachandran, M Madesh and KA Balasubramanian*

Lower Oesophageal Sphincter Pressure

121 Evaluation of lower oesophageal sphincter pressure using endoscopic manometric sleeve assembly *M Hananoki, K Haruma, K Tsuga, J Hata, K Sumii and G Kajiyama*

Mechanism and Control of Gastric Mucosal Injury and Bleeding

127 Role of energy metabolism in drug-induced acute gastric mucosal injuries in humans *K Sasahara, Y Uchida, K Matsuda, H Kawabata and M Nishioka*
See editiorial on page 105

133 Mast cell stabilization prevents ethanol-induced rat gastric mucosal injury: Mechanisms of protection *N Kalia, KD Bardhan, MWR Reed, S Jacob and NJ Brown*

142 Role of endothelin-1 in congestive gastropathy in portal hypertensive rats *S Migoh, M Hashizume, K Tsugawa, K Tanoue and K Sugimachi*

148 Effect of intragastric pH on control of peptic ulcer bleeding *Y Li, W Sha, Y Nie, H Wu, Q She, S Dai, L Jia and W Yu*

Helicobacter pylori

155 Determination of the optimal cut-off value for the [^{13}C]-urea breath test based on a *Helicobacter pylori*-specific polymerase chain reaction assay *H Yoshida, K Hirota, K Ogura, S Maeda, Y Shiratori, Y Sasaki and M Omata*

161 Endoscopic [^{13}C]-urea breath test for quantification of *Helicobacter pylori* infection *H Suto, T Azuma, S Ito, Y Ito, H Miyaji, Y Yamazaki, Y Kohli and M Kuriyama*

168 *Helicobacter pylori* induces apoptosis in gastric epithelial cells through inducible nitric oxide *S Watanabe, A Takagi, Y Koga, S Kamiya and T Miwa*

Hepatitis C Virus Infection

175 Hepatitis C in injecting drug-using women during and after pregnancy *NC Latt, JD Spencer, PJ Beeby, GW McCaughan, JB Saunders, E Collins and YE Cossart*

182 Amino acid substitutions in codons 9–11 of hepatitis C virus core protein lead to the synthesis of a short core protein product *C-T Yeh, S-Y Lo, D-I Dai, J-H Tang, C-M Chu and Y-F Liaw*

Porphyrin Profiles in Hepatobiliary Disease

192 Effect of hepatobiliary disease, chronic hepatitis C and hepatitis B virus infections and interferon-α on porphyrin profiles in plasma, urine and faeces *PR Gibson, J Grant, V Cronin, D Blake and S Ratnaike*

Cavographic Study of Inferior Vena Cava Obstruction

202 Cavographic study of an early stage of obstruction of the hepatic portion of the inferior vena cava *SM Shrestha, BL Joshi, S Shrestha and KG Maharajan*

Images of Interest

213 Gastrointestinal: Colonic pseudopolyposis

211 Hepatobiliary and pancreatic: Recurrent right upper quadrant pain

214 Hepatobiliary and pancreatic: Commentary

Case Reports

215 Oesophageal cavernous haemangioma diagnosed histologically, not by endoscopic procedures *K Tominaga, T Arakawa, K Ando, S Umeda, M Shiba, N Suzuki, T Watanabe, O Takaishi, Y Fujiwara, T Uchida, T Fukuda, K Higuchi and T Kuroki*

220 Endoscopic pancreatic sphincter balloon dilation for effective retrieval of pancreatic duct stone *T Suga, S Kawa, A Horiuchi, N Nakamura, K Mukawa, T Akamatsu and K Kiyosawa*

225 **Notices**

Volume 15 Number 3 March 2000

Editorial

227 Current limitations to nucleoside analogue therapy for chronic hepatitis B virus infection in the liver transplant and non-transplant setting *JS Freiman and GW McCaughan*
See article on page 304

Reviews

230 Gastro-oesophageal reflux disease in Asia *K-L Goh, C-S Chang, K-M Fock, M Ke, H-J Park and S-K Lam*

239 Extracorporeal shock wave lithotripsy of gallstones revisited: Current status and future promises *E Mulagha and H Fromm*

244 Pathophysiology of the intrahepatic biliary epithelium *M Strazzabosco, C Spirli and L Okolicsanyi*

***Helicobacter pylori* Infection**

254 Use of a dry latex agglutination test to measure eradication of *Helicobacter pylori* infection *PD Midolo, B Dakic, L Nicholson, JR Lambert, S Lin and EG Russell*

257 *Helicobacter pylori* infection occurs via close contact with infected individuals in early childhood *H Miyaji, T Azuma, S Ito, Y Abe, F Gejyo, N Hashimoto, H Sugimoto, H Suto, Y Ito, Y Yamazaki, Y Kohli and M Kuriyama*

263 Water extract of *Helicobater pylori* stimulates interleukin-8 secretion by a human gastric epithelial cell line (JR-St) through protein tyrosine phosphorylation *K Yakabi, S Ro, R Okazaki, J Shiojima, K Tsuda, H Mimura, H Tomono and T Nakamura*

271 Relationship between *Helicobacter pylori* infection and smoking and drinking habits *A Ogihara, S Kikuchi, A Hasegawa, M Kurosawa, K Miki, E Kaneko and H Mizukoshi*

277 Effect of age and *Helicobacter pylori* infection on gastric acid secretion *K Haruma, T Kamada, H Kawaguchi, S Okamoto, M Yoshihara, K Sumii, M Inoue, S Kishimoto, G Kajiyama and A Miyoshi*

284 A 15-minute [^{13}C]-urea breath test for the diagnosis of *Helicobacter pylori* infection in patients with non-ulcer dyspepsia *N-J Peng, P-I Hsu, S-C Lee, H-H Tseng, W-K Huang, D-G Tsay, L-P Ger, G-H Lo, C-K Lin, C-C Tsai and K-H Lai*

Enteric Pathogens

290 Prevalence of enteric pathogens among community based asymptomatic individuals *ME Hellard, MI Sinclair, GG Hogg and CK Fairley*

Interferon Treatment for Chronic Hepatitis C

294 Serum total bile acid level as a sensitive indicator of hepatic histological improvement in chronic hepatitis C patients responding to interferon treatment *T Shima, H Tada, M Morimoto, Y Nakagawa, H Obata, T Sasaki, H Park, S Nakajo, T Nakashima, T Okanoue and K Kashima*

300 Interferon treatment is not associated with a worsening of psychiatric symptoms in patients with hepatitis C *RT Mulder, M Ang, B Chapman, A Ross, IF Stevens and C Edgar*

Duck Hepatitis B Viral Replication

304 Effect of nucleoside analogue therapy on duck hepatitis B viral replication in hepatocytes and bile duct epithelial cells *in vivo* *A Nicoll, S Locarnini, ST Chou, R Smallwood and P Angus*
See editorial on page 227

Hepatitis C Virus Core Protein and Histology

311 Relationship between histological prognosis of chronic hepatitis C and amount of hepatitis C virus core protein in serum *A Iijima, E Tanaka, M Kobayashi, S Yagi, M Mizokami and K Kiyosawa*

Prophylactic Endoscopic Injection Sclerotherapy

320 Dysphagia after prophylactic endoscopic injection sclerotherapy for oesophageal varices: Not fatal but a distressing complication *T Nozoe, T Matsumata and K Sugimachi*

Images of Interest

325 Gastrointestinal: Oesophageal intramural pseudodiverticulosis

326 Hepatobiliary and pancreatic: A woman who underwent cholecystectomy

337 Hepatobiliary and pancreatic: Commentary

Case Reports

327 Complete disappearance of recurrent hepatocellular carcinoma with peritoneal dissemination and splenic metastasis: A unique clinical course after surgery *T Terasaki, K Hanazaki, E Shiohara, Y Matsunaga, N Koide and J Amano*

331 Mucosa-associated lymphoid tissue lymphoma of the rectum that regressed spontaneously *R Takenaka, J Tomoda, T Sakata, T Ichiba, M Motoi, M Mizuno and T Tsuji*

336 **Notices**

Volume 15 Number 4 April 2000

Editorials

i Gastroenterology in the Asian–Pacific region in the new millennium: The role of the Journal of Gastroenterology and Hepatology *GG Farrell, SK Lam and N Sato*

339 Hepatitis B virus X protein: Searching for a role in hepatocarcinogenesis *C-T Yeh*
See article on page 357

342 Lessons from animal models of primary biliary cirrhosis *M Zeniya*
See article on page 443

344 Anti-neutrophil cytoplasmic antibodies in hepatobiliary disease *DA Fulcher*
See article on page 437

346 How to manage hepatic vein tumour thrombus in hepatocellular carcinoma *S Okada*
See article in *J. Gastroenterol. Hepatol.* 1999; 14: 922–7.

Reviews

349 Impact of alcohol on the ability of Kupffer cells to produce chemokines and its role in alcoholic liver disease *AP Bautista*

357 Putative role of hepatitis B virus X protein in hepatocarcinogenesis: Effects on apoptosis, DNA repair, mitogen-activated protein kinase and JAK/STAT pathways *P Arbuthnot, A Capovilla and M Kew*
See editorial on page 339

Helicobacter pylori

369 Rapid urease test is less sensitive than histology in diagnosing *Helicobacter pylori* infection in patients with non-variceal upper gastrointestinal bleeding *A Archimandritis, M Tzivras, S Sougioultzis, I Papaparaskevas, P Apostolopoulos, A Avlami and PS Davaris*

374 Plaunotol suppresses interleukin-8 secretion induced by *Helicobacter pylori* : Therapeutic effect of plaunotol on *H. pylori* infection *A Takagi, Y Koga, Y Aiba, AMA Kabir, S Watanabe, U Ohta-Tada, T Osaki, S Kamiya and T Miwa*

Gut Motility

381 Evaluation of gut motility in type II diabetes by the radiopaque marker method *M Iida, M Ikeda, M Kishimoto, T Tsujino, H Kaneto, M Matsuhisa, Y Kajimoto, T Watarai, Y Yamasaki and M Hori*

Chronic Viral Hepatitis and Liver Cirrhosis

386 Aspartate aminotransferase : alanine aminotransferase ratio in chronic hepatitis C infection: Is it a useful predictor of cirrhosis? *GJ-H Park, BPC Lin, MC Ngu, DB Jones and PH Katelaris*

391 Low incidence of hepatitis C virus transmission between spouses: A prospective study *J-H Kao, C-J Liu, P-J Chen, W Chen, M-Y Lai and D-S Chen*

396 Vaccination against hepatitis B: Current challenges for Asian countries and future directions *A Safary and J Beck*

402 Interaction between hyaluronan and CD44 in the development of dimethylnitrosamine-induced liver cirrhosis *T Satoh, T Ichida, Y Matsuda, M Sugiyama, K Yonekura, T Ishikawa and H Asakura*

412 Clinical and haemodynamic aspects of hepatopulmonary syndrome in Indian patients with cirrhosis *BK De, S Sen, PK Biswas, J Biswas and AK Maity*

Clinical aspects of Hepatocellular Carcinoma

417 Role of serum C-reactive protein as a marker of hepatocellular carcinoma in patients with cirrhosis *Z-Y Lin, L-Y Wang, M-L Yu, S-C Chen, W-L Chuang, M-Y Hsieh, J-F Tsai and W-Y Chang*

422 Clinical significance of urokinase-type plasminogen activator activity in hepatocellular carcinoma *T Itoh, Y Hayashi, T Kanamaru, Y Morita, S Suzuki, W Wang, L Zhou, J-A Rui, M Yamamoto, Y Kuroda and H Itoh*

431 Decreased function of peripheral blood dendritic cells in patients with hepatocellular carcinoma with hepatitis B and C virus infection *S Kakumu, S Ito, T Ishikawa, Y Mita, T Tagaya, Y Fukuzawa and Kentaro Yoshioka*

Autoimmune Liver Disease

437 Anti-neutrophil cytoplasmic antibodies in patients with chronic liver diseases: Prevalence, antigen specificity and predictive value for diagnosis of autoimmune liver disease *S Lindgren, S Nilsson, L Nässberger, H Verbaan, J Wieslander and Members of the Swedish Internal Medicine Liver Club*
See editorial on page 344

443 Cytokine profile of liver-infiltrating $CD4^+$ T cells separated from murine primary biliary cirrhosis-like hepatic lesions induced by graft-versus-host reaction *S Itoh, Y Matsuzaki, T Kimura, T Ikegami, J Shoda, M Fujiwara and N Tanaka*
See editorial on page 342

Images of Interest

453 Gastrointestinal: Foreign bodies in the stomach

454 Hepatobiliary and pancreatic: Man with recurrent jaundice and abdominal pain

456 Hepatobiliary and pancreatic: Commentary

Case Reports

457 Pancreatic vasoactive intestinal polypeptide-oma as a cause of secretory diarrhoea *SL Masel, BA Brennan, JH Turner, GL Cullingford and DJ Cullen*

461 Autoimmune pancreatitis detected as a mass in the tail of the pancreas *T Taniguchi, S Seko, K Azuma, M Tamegai, O Nishida, F Inoue, M Okamoto, T Mizumoto and H Kobayashi*

465 **Notices**

Volume 15 Number 5 May 2000

Editorials

467 East meets West: Acute liver failure in the global village *DG Bowen, NA Shackel and GW McCaughan*
See articles on pages 473, 480

470 *Helicobacter pylori* and dyspepsia: Still an unresolved controversy? *WHC Hu and SK Lam*
See article on page 498

Reviews

473 Acute hepatic failure in India: A perspective from the East *SK Acharya, SK Panda, A Saxena and SD Gupta*
See editorial on page 467

480 Acute hepatic failure: A Western perspective *G Ostapowicz and WM Lee*
See editorial on page 467

489 Probiotics in infective diarrhoea and inflammatory bowel diseases *P Gionchetti, F Rizzello, A Venturi and M Campieri*

Helicobacter pylori Infection

494 Metronidazole-resistant *Helicobacter pylori* in an urban Asian population *EK Teo, KM Fock, TM Ng, CJL Khor and AL Tan*

498 Clinical presentation of *Helicobacter pylori*-positive and -negative functional dyspepsia *BFM Werdmuller, ABMM van der Putten, AG Balk, CBHW Lamers and RJLF Loffeld*

See editorial on page 470

Gastroallergic Anisakiasis

503 Gastroallergic anisakiasis: Findings in 22 patients *C López-Serrano, A Alonso, A Daschner, A Moreno-Ancillo, JS de Parga, T Caballero, P Barranco and R Cabañas*

Gastric Carcinoma in Elderly Patients

507 Surgery for gastric carcinoma in patients more than 85 years of age *Y Otani, T Kubota, K Kumai, M Ohgami, N Hayashi, Y Ishikawa, N Wada and M Kitajima*

Inflammatory Bowel Disease and Bone Mineral Density

512 Decreased trabecular bone mineral density in newly diagnosed inflammatory bowel disease patients in Korea *S-H Lee, H-J Kim, S-K Yang, W-H Kim, Y-S Joo, S-H Dong, B-H Kim, J-I Lee, Y-W Chang and R Chang*

Hepatitis B Infection

519 Identification of a pre-S2 mutant in hepatocytes expressing a novel marginal pattern of surface antigen in advanced diseases of chronic hepatitis B virus infection *Y-F Fan, C-C Lu, Y-C Chang, T-T Chang, P-W Lin, H-Y Lei and I-J Su*

Hepatocellular Carcinoma

529 Enhancement of poly-adenosine diphosphate ribosylation in human hepatocellular carcinoma *F Nomura, M Yaguchi, A Togawa, M Miyazaki, K Isobe, M Miyake, M Noda and T Nakai*

536 Gastrointestinal metastasis in hepatocellular carcinoma: Radiological and endoscopic studies of 11 cases *C-P Lin, J-S Cheng, K-H Lai, G-H Lo, P-I Hsu, H-H Chang, J-H Hsu, Y-Y Wang, H-B Pan and H-H Tseng*

Liver Immunology

542 Liposome-encapsulated OK-432 specifically and sustainedly induces hepatic natural killer cells and intermediate T cell receptor cells *S Yamagiwa, T Ichida, K Sato, S Sugahara, K Yonekura, M Uchida, K Uehara, M Katoh, H Satoh, T Abo and H Asakura*

Budd–Chiari Syndrome

550 Budd–Chiari syndrome: Our experience of 71 patients *V Singh, SK Sinha, CK Nain, P Bambery, U Kaur, S Verma, YK Chawla and K Singh*

Gastrointestinal Endoscopy

555 School absenteeism after upper gastrointestinal endoscopy in children *S Treepongkaruna,K Lee, D Giltinan and AG Catto-Smith*

Images of Interest

565 Gastrointestinal: What's in a hernia?

563 Hepatobiliary and pancreatic: Computed tomography in liver disease

566 Hepatobiliary and pancreatic: Commentary

Case Reports

567 Sustained response to combination therapy in a patient with chronic hepatitis C and thrombocytopenia secondary to α-interferon *M Jiménez-Sáenz, M Rojas, A Piñar, E Salas, J Rebollo, I Carmona, JM Herrerías-Esteban and JM Herrerías-Gutiérrez*

570 Wilson's disease with superimposed autoimmune features: Report of two cases and review *P Milkiewicz, S Saksena, SG Hubscher and E Elias*

575 **Notices**

Volume 15 Number 6 June 2000

Editorials

577 Role of endoscopic retrograde cholangiopancreatography in late biliary tract complications after orthotopic liver transplantation *H Furukawa*

See article on page 654

579 Thrombopoietin and liver diseases *K Tanikawa*

See article on page 647

Reviews

581 Treatment of hepatitis C with interferon and ribavirin *S Pianko and JG McHutchison*

587 Hepatic resection for benign tumours of the liver *M-F Chen*

593 Diagnosis and treatment of gastro-oesophageal reflux disease in infants and children *Y Vandenplas and B Hegar*

Peptic Ulcer Disease

604 Elevation of *TFF1* gene expression during healing of gastric ulcer at non-ulcerated sites in the stomach: Semiquantification using the single tube method of polymerase chain reaction *T Saitoh, T Mochizuki, T Suda, Y Aoyagi, Y Tsukada, R Narisawa and H Asakura*

610 Duodenal ulcer prevalence: Experimental evidence for the possible role of dietary lipids *AP Jayaraj, FI Tovey, MR Lewin and CG Clark*

Helicobacter pylori and Modified Urease Test

617 Modified rapid urease test for *Helicobacter pylori* detection in relation to an immunohistochemical stain *Y Tokunaga, H Shirahase, E Yamamoto, R Inao, S Hamaguchi, K Kanaji, A Kitaoka, T Yagi, A Tokuka and K Ohsumi*

Inflammatory Bowel Disease and Racial Difference

622 Racial differences in the prevalence of ulcerative colitis and Crohn's disease in Singapore *YM Lee, KM Fock, SJ See, TM Ng, C Khor and EK Teo*

Protein Permeation in Intestinal Epithelium

626 Polyunsaturated fatty acids reduce non-receptor-mediated transcellular permeation of protein across a model of intestinal epithelium *in vitro* *O Rosella, A Sinclair and PR Gibson*

Hepatitis G Virus

632 Influence of RNA titre and amino acid changes in the NS5A region of GB virus C/hepatitis G virus on the effectiveness of interferon therapy *T Fujisawa, N Horiike, K Michitaka and M Onji*

Hepatocellular Carcinoma and Vascular Endothelial Growth Factor Receptors

640 Detection of vascular endothelial growth factor and its receptor expression in human hepatocellular carcinoma biopsy specimens *T Shimamura, S Saito, K Morita, T Kitamura, M Morimoto, T Kiba, K Numata, K Tanaka and H Sekihara*

Thrombopoietin and Liver Disease

647 Expression of hepatic thrombopoietin mRNA in primary cultured hepatocytes and in rats with acute liver injury or bone marrow suppression with or without cirrhosis *T Ishikawa, T Ichida, Y Matsuda, S Sugitani, M Sugiyama, T Kato, H Miyazaki and H Asakura*
See editorial on page 579

Biliary Complication after Orthotopic Liver Transplantation

654 Late biliary tract complications after orthotopic liver transplantation: Diagnostic and therapeutic role of endoscopic retrograde cholangiopancreatography *S Mosca, G Militerno, MA Guardascione, L Amitrano, FP Picciotto and O Cuomo*
See editorial on page 577

Endoscopic Sphincterotomy

661 Recurrence of biliary symptoms after endoscopic sphincterotomy for choledocholithiasis in patients with gall bladder stones *SY Yi*

Iron Excretion

665 Iron excretion in iron-overloaded rats following the change from an iron-loaded to an iron-deficient diet *PS Oates, GP Jeffrey, KA Basclain, C Thomas and EH Morgan*

Images of Interest

677 Gastrointestinal: *Helicobacter pylori* gastritis

675 Hepatobiliary and pancreatic: A man with ascites

678 Hepatobiliary and pancreatic: Commentary

Case Reports

680 Temporary use of an accuflex stent for unextractable common bile duct stones *Y Mizukami, H Saito, T Obara, S Arisato, Y Nakano, Y Sakurai, T Izawa and Y Kohgo*

684 Life-threatening haemorrhage from a sternal metastatic hepatocellular carcinoma *C-Y Chen, G-Y Chau, S-H Yen, Y-H Hsieh, Y Chao, K-H Chi, C-P Li, F-Y Chang and S-D Lee*

688 Haemorrhagic cerebral sinus thrombosis associated with ulcerative colitis: A case report of successful treatment by anticoagulant therapy *T Tsujikawa, M Urabe, H Bamba, A Andoh, M Sasaki, S Koyama, Y Fujiyama and T Bamba*

693 **Notices**

Volume 15 Number 7 July 2000

Editorials

695 Perihepatic lymphadenopathy in chronic liver diseases *H Ishii and H Saito*
See article on page 783

697 Understanding the molecular changes in Barrett's oesophagus *RJ Thomas*
See article on page 730

Reviews

698 Dendritic cell-based cancer immunotherapy: Potential for treatment of colorectal cancer? *W Chen, N Rains, D Young and RS Stubbs*

706 Branched-chain amino acids *C Platell, S-E Kong, R McCauley and JC Hall*

718 Reactive oxygen and mechanisms of inflammatory liver injury *H Jaeschke*

725 Use of tamoxifen in hepatocellular carcinoma: A review and paradigm shift *CK Tan, PKH Chow, M Findlay, C Wong and D Machin*

Barrett's Oesophagus and Cancer

730 K-*ras* codon 12 mutations in Barrett's oesophagus and adenocarcinomas of the oesophagus and oesophagogastric junction *RVN Lord, R O'Grady, C Sheehan, AF Field and RL Ward*
See editorial on page 697

Helicobacter pylori-associated Gastritis, Wound Healing and Malignancy

737 A topographic study of *Helicobacter pylori* density, distribution and associated gastritis *V Misra, S Misra, M Dwivedi, PA Singh, V Bhargava and SC Gupta*

744 Expression of human telomerase catalytic subunit gene in cancerous and precancerous gastric conditions *K Suzuki, H Kashimura, J Ohkawa, M Itabashi, T Watanabe, T Sawahata, A Nakahara, H Muto and N Tanaka*

752 Cyclo-oxygenase-2 inhibitors suppress epithelial cell kinetics and delay gastric wound healing in rats *W-H Sun, S Tsuji, M Tsujii, ES Gunawan, H Sawaoka, N Kawai, H Iijima, A Kimura, Y Kakiuchi, M Yasumaru, Y Sasaki, S Kawano and M Hori*

762 Risk of gastric cancer is not increased after partial gastrectomy *R Bassily, RA Smallwood and B Crotty*

766 Enhanced tumorigenicity of insulinoma by X-irradiation of the gastric region in Sprague–Dawley male rats *S Kido, K Haruma, Y Kitadai, M Yoshihara, K Sumii, G Kajiyama and H Watanabe*

Coeliac Disease and Human Leucocyte Antigens

771 Association of human leucocyte-DR and DQ antigens in coeliac disease: A family study *S Agrawal, A Gupta, SK Yachha, B Müller-Myhsok, P Mehrotra and SS Agarwal*

Fatty Liver, Chronic Hepatitis C and Hepatocellular Carcinoma

775 Are there any sex differences in fatty liver? A study of glucose metabolism and body fat distribution *A Lonardo and P Trande*

783 Perihepatic lymphadenopathy in chronic hepatitis C: A complementary diagnostic element? *D Ierna, RA D'Amico, S Antoci, E Campanile and S Neri*
See editorial on page 695

786 Accumulation of copper in the liver and hepatic injury in chronic hepatitis C *R Hatano, M Ebara, H Fukuda, M Yoshikawa, N Sugiura, F Kondo, M Yukawa and H Saisho*

792 Serotyping and genotyping of hepatitis C virus in Taiwanese patients with type C chronic liver disease and uraemic patients on maintenance haemodialysis *M-L Yu, L-Y Wang, W-L Chuang, C-Y Dai, M-H Sung, S-C Chen, Z-Y Lin, M-Y Hsieh, J-F Tsai and W-Y Chang*

798 Alcohol consumption induces hepatocyte apoptosis in patients with chronic hepatitis C infection *S Pianko, S Patella and W Sievert*

Images of Interest

807 Gastrointestinal: Stromal cell tumours of the stomach

808 Hepatobiliary and pancreatic: A man who underwent local ablation therapy for hepatocellular carcinoma

812 Hepatobiliary and pancreatic: Commentary

Case Report

809 Sensory neuropathy in the prodromal phase of hepatitis A and review of the literature *S Islam and JA McDonald*

813 **Notices**

Volume 15 Number 8 August 2000

Editorials

815 JGH and Asia–Pacific consensus on prevention and management of gastrointestinal and liver diseases *GC Farrell, Y-F Liaw and GW McCaughan*
See article on page 825

819 Biochemical markers of hepatic fibrogenesis: Single measurements are not reliable enough to replace liver biopsy *J George*
See article on page 945

822 Treatment of hepatocellular carcinoma *U Dutta*
See article on page 860

Special Report

825 Consensus statements on the prevention and management of hepatitis B and hepatitis C in the Asia–Pacific region *Core Working Party for Asia–Pacific Consensus on Hepatitis B and C*
See editorial on page 815

Review

842 Oesophageal varices: Assessment of the risk of bleeding and mortality *J Fevery and F Nevens*

Hepatocellular Carcinoma

849 Effect of branched-chain amino acids on the composition and cytolytic activity of liver-associated lymphocytes in rats *T Tsukishiro, Y Shimizu, K Higuchi and A Watanabe*

860 Outcomes of primary hepatocellular carcinoma treatment: An 8-year experience with 368 patients in Thailand *A Pawarode, P Tangkijvanich and N Voravud*
See editorial on page 822

Bilirubin, Cholesterol, Bile Acid and Cholestasis

865 Bilirubin and bile acids may modulate their own metabolism via regulating uridine diphosphate-glucoronosyltransferase expression in the rat *YQ Li, DA Prentice, ML Howard, ML Mashford and PV Desmond*

871 Effects of simvastatin on hepatic cholesterol metabolism, bile lithogenicity and bile acid hydrophobibity in patients with gallstones *JL Smith, PD Roach, LN Wittenberg, M Riottot, S Praga Pillay, PJ Nestel and LK Nathanson*

880 Role of neutrophils in sinusoidal endothelial cell injury after extensive hepatectomy in cholestatic rats *M Ohtsuka, M Miyazaki, H Kubosawa, Y Kondo, H Ito, H Shimizu, Y Simizu, S Nozawa, S Furuya and N Nakajima*

887 Biliary excretory function is regulated by canalicular membrane fluidity associated with phospholipid fatty acyl chains in the bilayer: Implications for the pathophysiology of cholestatis *H Hyogo, S Tazuma and G Kajiyama*

Liver Resection

895 Changes in prostaglandin and nitric oxide levels in the hyperdynamic circulation following liver resection *OF Lai, PKH Chow, S Tan, IC Song, KC Soo, SE Aw, WK Yu, SMC Fook-Chong, S Satchithanantham and STF Chan*

Oesophageal pH Monitoring

902 Oesophageal pH monitoring in infants: Elimination of gastric buffering does not modify reflux index *B Hegar, K Vandemaele, A Arana and Y Vandenplas*

***Helicobacter pylori* Infection and Gastric Mucosal Lesion**

906 Clarithromycin-resistance and point mutations in the 23S rRNA gene in *Helicobacter pylori* isolates from Japan *N Umegaki, T Shimoyama, D Nishiya, T Suto, S Fukuda and A Munakata*

910 Efficacy of a 1-week pantoprazole triple therapy in eradicating *Helicobacter pylori* in Asian patients *KL Goh, N Parasakthi, PL Cheah, CK Ranjeev, M Rosmawati, YM Tan and SC Chin*

915 L-Arginine protects and exacerbates ethanol-induced rat gastric mucosal injury *N Kalia, KD Bardhan, MWR Reed, S Jacob and NJ Brown*

Irritable Bowel Syndrome, Colitis and Colorectal Cancer

925 Effects of a calcium channel blocker and antispasmodic in diarrhoea-predominant irritable bowel syndrome *C-L Lu, C-Y Chen, F-Y Chang, S-S Chang, L-J Kang, R-H Lu and S-D Lee*

931 Effect of argatroban on trinitrobenzene sulfonic acid-induced colitis *M Onomura, H Tsukada, K Fukuda, M Kodama, H Nakamura, M Hosokawa, M Ohya and Y Seino*

939 Yield from colonoscopic screening in people with a strong family history of common colorectal cancer *DJ Dowling, DJB St John, FA Macrae and JL Hopper*

Viral Hepatitis C and G

945 Measurement of serum hyaluronic acid in patients with chronic hepatitis C and its relationship to liver histology *JG McHutchison, LM Blatt, M de Medina, JR Craig, A Conrad, ER Schiff, MJ Tong and The Consensus Interferon Study Group*
See editorial on page 819

952 Hepatitis G virus genotypes in Australia, Papua New Guinea and the Soloman Islands: A possible new Pacific type identified *LM Mison, CA Hyland, M Poidinger, IA Borthwick, J Faoagali, U Aeno and EJ Gowans*

Images of Interest

959 Gastrointestinal: Crohn's disease of the oesophagus

957 Hepatobiliary and pancreatic: A boy with ascites

960 Hepatobiliary and pancreatic: Commentary

Case Report

962 Transjugular intrahepatic portosystemic shunt for intractable colonic bleeding in a patient with cirrhosis *S Malki, R Allen and P Pavli*

964 **Notices**

Volume 15 Number 9 September 2000

Editorials

965 Spontaneous regression of hepatocellular carcinoma *S Okada and T Abo*
See article on page 1079

967 A long way toward understanding the pathogenesis of functional dyspepsia, but we should go forward with the accumulation of clinical evidence *H Miwa and N Sato*
See article on page 1022

Reviews

969 Portal-systemic encephalopathy in non-cirrhotic patients: Classification of clinical types, diagnosis and treatment *A Watanabe*

980 Magnetic resonance imaging (MRI) and diseases of the liver and biliary tract. Part 1. Basic principles, MRI in the assessment of diffuse and focal hepatic disease *GA Macdonald and AJ Peduto*

992 Magnetic resonance imaging and diseases of the liver and biliary tract. Part 2. Magnetic resonance cholangiography and angiography *GA Macdonald and AJ Peduto*

***Helicobacter pylori* infection**

1000 Inhibition of mitogen-induced murine lymphocyte proliferation by *Helicobacter pylori* cell-free extract *W Chen, D Shu and VS Chadwick*

1007 Pooled analysis of *Helicobacter pylori* eradication regimes in Asia *WH Wang, BCY Wong and SK Lam*

Gastrointestinal Motility

1018 Effect of acute and long-term oral tobacco use on oesophageal motility *PV Bhandarkar, SK Shah, M Meshram, P Abraham, TS Narayanan and SJ Bhatia*

1022 Real-time ultrasonographic assessment of antroduodenal motility after ingestion of solid and liquid meals by patients with functional dyspepsia *H Kusunoki, K Haruma, J Hata, H Tani, E Okamoto, K Sumii and G Kajiyama*

See editorial on page 967

Colorectal Cancer

1028 Mortality association of enhanced CD44v6 expression is not mediated through occult lymphatic spread in stage II colorectal cancer *G Clarke, E Ryan, JC O'Keane, J Crowe and PM Mathúna*

Coeliac Disease

1032 Adult coeliac disease: Prevalence and clinical significance *HB Cook, MJ Burt, JA Collett, MR Whitehead, CMA Frampton and BA Chapman*

Ulcerative Colitis

1037 Incidence and prevalence of ulcerative colitis in the Songpa-Kangdong District, Seoul, Korea, 1986–1997 *S-K Yang, W-S Hong, YI Min, HY Kim, JY Yoo, P-L Rhee, JC Rhee, DK Dhang, IS Song, SA Jung, E-B Park, HM Yoo, DK Lee and YK Kim*

Viral Hepatitis, Liver Cirrhosis and Hepatocellular Carcinoma

1043 Detection of hepatitis A viral RNA in sera of patients with acute hepatitis A *OS Kwon, KS Byun, JE Yeon, SH Park, JS Kim, JH Kim, YT Bak, J H Kim and CH Lee*

1048 Sequence-motif analysis of 5′-untranslated region of GB virus-C in Japanese patients *T Kanda, O Yokosuka, S Kawai, F Imazeki and H Saisho*

1054 Hepatitis C virus clearance is prominent in women in an endemic area *G Inoue, N Horiike, K Michitaka and M Onji*

1059 Acute and chronic effects of isosorbide-5-mononitrate administration on effective renal plasma flow and the renin-aldosterone system in cirrhotic patients *S-D Chen, J-F Hsieh, S-C Tsai and W-Y Lin*

1064 Telomerase activity in peripheral blood for diagnosis of hepatoma *T Tatsuma, S Goto, S Kitano, Y-C Lin C-M Lee and C-L Chen*

Pigment Gallstone

1071 Human biliary β-glucuronidase activity before and after relief of bile duct obstruction: Is it the major role in the formation of pigment gallstones? *C-Y Chen, S-C Shiesh, H-C Tsao and X-Z Lin*

Images of Interest

1077 Gastrointestinal: Behçet's disease

1078 Hepatobiliary and pancreatic: A man with a dull abdominal pain

1087 Hepatobiliary and pancreatic: Commentary

Case Report

1079 Spontaneous regression of hepatocellular carcinoma and review of literature *Y Takeda, H Togashi, H Shinzawa, S Miyano, R Ishii, T Karasawa, Y Takeda, T Saito, K Saito, H Haga, T Matsuo, M Aoki, H Mitsuhashi, H Watanabe and T Takahashi*

See editorial on page 965

1088 **Notices**

Volume 15 Number 10 October 2000

Editorial

1089 Clarithromycin resistance in *Helicobacter pylori* infection: Does it matter? *KM Fock*

See article on page 906

Review Articles

1093 Herbal hepatotoxicity: An expanding but poorly defined problem *S Chitturi and GC Farrell*

Achalasia

1100 Botulinum toxin for achalasia in children *KS Ip, DJS Cameron, AG Catto-Smith and W Hardikar*

***Helicobacter pylori* Infection**

1105 Association of *Helicobacter pylori* infection with atrophic gastritis and intestinal metaplasia *K Ohkuma, M Okada, H Murayama, M Seo, M Maeda, M Kanda and N Okabe*

1113 Endoscopic characteristics of low-grade gastric mucosa-associated lymphoid tissue lymphoma after eradication of *Helicobacter pylori* *Y Urakami, T Sano, S Begum, H Endo, H Kawamata and Y Oki*

Gastrointestinal Pathophysiology, Inflammation and Malignancy

1120 Vasoactive intestinal polypeptide appears to be one of the mediators in misoprostol-enhanced small intestinal transit in rats *F-Y Chang, M-L Doong, T-S Chen, S-D Lee and PS Wang*

1125 Endogenous endothelin in a rat model of acute colonic mucosal injury *M Sugimachi, T Kiyohara, Y Murayama, T Minami, Y Miyazaki, J-I Miyagawa, Y Shinomura and Y Matsuzawa*

1132 Divergence of mucosal and motor effects of insulin-like growth factor (IGF-I) and LR^{3}IGF-I on isolated rat ileum following abdominal irradiation *R Fraser, C Frisby, M Schirmer, LA Blackshaw, J Langman, G Howarth and EK Yeoh*

1138 Activation of mucosal phospholipase D in a rat model of colitis *T Sakamoto, S-I Okamura, S-Y Saruya, S Yamashita and M Mori*
1145 Detection of *Listeria monocytogenes* by polymerase chain reaction in intestinal mucosal biopsies from patients with inflammatory bowel disease and controls *W Chen, D Li, B Paulus, I Wilson and VS Chadwick*
1151 Analysis of K-*ras* codon 12 mutations and p53 overexpression in colorectal nodule-aggregating tumors *T Kusaka, H Fukui, Y Sano, Y Ueda, T Chiba and T Fujimori*
1158 Folate deficiency diminishes the occurrence of abberant crypt foci in the rat colon but does not alter global DNA methylation status *RK Le Leu, GP Young and G McIntosh*

Fatty Liver, Chronic Viral Hepatitis and Autoimmune Hepatitis
1165 A multicenter, randomized, controlled trial of interferon alfacon-1 compared with α-2a-interferon in Chinese patients with chronic hepatitis C virus infection *G-Bi Yao, X-X Fu, G-S Tian, D-Z Xu, L-J Hao, Y-S Huangfu and C-X Su*
1171 Seroprevalence of GB virus C/hepatitis G virus–RNA and anti-envelope antibody in high-risk populations in Taiwan *S-J Hwang, C-W Chu, R-H Lu, K-H Lan, J-C Wu, Y-J Wang, F-Y Chang and S-D Lee*
1176 Frequency and significance of antibodies to chromatin in autoimmune hepatitis type I *L Li, M Chen, DY Huang and M Nishioka*
1183 Troglitazone prevents fatty changes of the liver in obese diabetic rats *DM Jia, A Tabaru, T Akiyama, S Abe and M Otsuki*

Hepatocellular Carcinoma and Liver Transplantation
1192 Clinicopathologic analysis of stage II-III hepatocellular carcinoma showing early massive recurrence after liver resection *J Yamanaka, N Yamanaka, K Nakasho, T Tanaka, T Ando, C Yasui, N Kurada, M Takata, S Maeda, K Matsushita, K Uematsu and E Okamoto*
1199 Prevention of proteolysis in cold-stored rat liver by addition of amino acids to the preservation solution *C Charrueau, F Blondé-Cynober, C Coudray-Lucas, R Poupon, J-C Chaumeil, L Hannoun and L Cynober*
1205 Clinical features and etiology of hepatocellular carcinoma arising in patients with membranous obstruction of the inferior vena cava: In reference to hepatitis viral infection *S Matsui, T Ichida, M Watanabe, S Sugitani, T Suda, T Takahashi and H Asakura*

Pancreatobiliary Malignancy
1212 Detection of intracellular interleukin-2 production in peripheral T lymphocytes by flow cytometry in patients with pancreatobiliary malignancies *M Uchida, T Ichida, K Sato, K Yonekura, S Yamagiwa, S Sugahara and H Asakura*

Images of Interest
1221 Gastrointestinal: Complications of fundoplication
1219 Hepatobiliary and pancreatic: Abdominal skin injury following arterial chemoembolization for hepatocellular carcinoma
1222 Hepatobiliary and pancreatic: Commentary

Case Report
1223 Clinical relapse in Whipple's disease despite maintenance therapy *G Garas, WSC Cheng, R Abrugiato and GM Forbes*
1227 **Notices**

Volume 15 Number 11 November 2000

Editorial
1229 Focal nodular hyperplasia: Controversy over etiology *F Kondo*
See article on page 1344

Review
1232 Drug and toxin-induced bile duct disorders *AP Geubel and CL Sempoux*
1239 Surgery for adult polycystic liver disease *M-F Chen*

***Helicobacter pylori* infection**
1243 *Helicobacter pylori* infection in childhood: Results of management with ranitidine bithmuth citrate plus amoxicillin and tinidazole *AA Nijevitch, KM Farztdinov, VU Sataev, RSH Khasanov, VA Katayev, SM Khusnutdinov, ED Akhunov and NS Kazykhanov*

Management of dyspepsia
1251 Evaluation of a new referral system for the management of dyspepsia in Hong Kong: Role of open-access upper endoscopy *BCY Wong, CK Chan, KW Wong, WM Wong, MF Yuen, KC Lai, WHC Hu, GKK Lau, CL Lai and SK Lam*

Acid secretion
1257 Quantitative measurement of mRNA coding for the receptors controlling acid secretion in the ovine fundus and antrum by using RT-PCR *S Kolivas, R Dow, R Jie, GS Baldwin and A Shulkes*

Gastrin
1267 Determinants of basal plasma gastrin levels in the general population *HG Peach and NE Barnett*

Colorectal adenoma and cancer
1272 Risk of colorectal cancer in patients with hematologic disease *T Kishida, M Yonezawa, Y Shibata, S Tanaka, I Shinozawa, T Hoshino, A Tatsuguchi, L Feng, J Sato, S Fujimori, Y Yoshida, C Sakamoto and M Kobayashi*
1277 Relationship between cyclooxygenase-2 expression and K-*ras* gene mutation in colorectal adenomas *M Fujita, H Fukui, T Kusaka, K Morita, S Fujii, Y Ueda, T Chiba, C Sakamoto, H Kawamata and T Fujimori*

Hepatitis C, G and TT virus infection

1282 Clinical significance of hepatitis C virus infection to alcoholics with cirrhosis in Korea *SY Kwon, MS Ahn and HJ Chang*

1287 Interspousal transmission of TT virus: Low efficiency and lack of apparent risk factors *C-J Liu, J-H Kao, W Chen, R-J Tsai, P-J Chen, M-Y Lai and D-S Chen*

1292 Clinical impact of genotype 1 TT virus infection in patients with chronic hepatitis C and response of TT virus to α-interferon *Y Nishizawa, E Tanaka, K Orii, A Rokuhara, T Ichijo, K Yoshizawa and K Kiyosawa*

Liver cirrhosis and portal hypertension

1298 Patients with stable uncomplicated cirrhosis have normal neutrophil function *R Kirsch, VE Woodburne, EG Shephard and RE Kirsch*

1307 Influence of intestinal flora on the development of fibrosis and cirrhosis in a rat model *JL Plummer, CJ Ossowicz, C Whibley, AH Ilsley and P de la M Hall*

1312 Predominant T helper 1 cells in patients with idiopathic portal hypertension *K Tokushige, K Yamauchi, T Komatsu, K Takasaki and N Hayashi*

Subacute hepatic failure

1318 Renal function and structure in subacute hepatic failure *C Bal, T Longkumer, C Patel, S Duttagupta and SK Acharya*

Liver gene therapy

1325 Conditionally immortalized mouse hepatocytes for use in liver gene therapy *KJ Allen, R Reyes, K Demmler, JF Mercer, R Williamson and RH Whitehead*

Pancreas cancer

1333 Clinical significance of cathepsin E in pancreatic juice in the diagnosis of pancreatic ductal adenocarcinoma *K Uno, T Azuma, M Nakajima, K Yasuda, T Hayakumo, H Mukai, T Sakai and K Kawai*

Images of Interest

1341 Gastrointestinal: Diffuse esophageal spasm

1339 Hepatobiliary and pancreatic: Acute abdominal pain and liver CT abnormalities

1342 Hepatobiliary and pancreatic: Commentary

Case reports

1344 Focal nodular hyperplasia of the liver: Direct evidence of circulatory disturbances *H Kumagai, T Masuda, H Oikawa, K Endo, M Endo and T Takano*
See editorial on page 1229

1348 Malignant melanoma metastatic to the common bile duct *G Garas, B Bramston, SEJ Edmunds*

1352 **Notices**

Volume 15 Number 12 December 2000

Editorial

1353 Community acquired acute *Helicobacter pylori* gastritis *DY Graham*
See article on page 1377

Special Report

1356 Chronic hepatitis B virus infection in Asian countries *I Merican, R Guan, G Amarapuka, MJ Alexander, A Chutaputti, RN Chien, SS Hasnian, N Leung, L Lesmana, PH Phiet, HM Sjalfoellah Noer, J Sollano, HS Sun and DZ Xu*

Esophageal Pressure Measurement

1362 Evaluation of miniature manometric techniques for the measurement of esophageal body pressure waves *G Shanmuganathan, MA Ritz, R Holloway, AC Di Matteo and TI Omari*

***Heliocabacter pylori* Infection, Gastritis and Gastric Cancer**

1370 Histological analysis of gastritis and *Helicobacter pylori* infection in patients with early gastric cancer: A case-control study *S Fukuda, M Tanaka, Y Soma, T Shimoyama, T Mikami, JE Crabtree, H Saito, A Munakata and Y Yoshida*

1377 A short-term eradication therapy for *Helicobacter pylori* acute gastritis *H Nomura, K Miyake, S Kashiwagi, T Sugiyama and M Asaka*
See editorial on page 1353

1382 *Helicobacter pylori* infection among Japanese children *M Kurosawa, S Kikuchi, Y Inaba, T Ishibashi and F Kobayashi*

1386 Non-steroidal anti-inflammatory drugs with different cyclooxygenase inhibitory profiles that prevent aberrant crypt foci formation but vary in their acute gastrotoxicity in a rat model *WA Brown, SA Skinner, C Malcontenti-Wilson, A Misajon, T DeJong, D Vogiagis and PE O'Brien*

1393 Overexpression of c-H-ras p21 is correlated with vascular endothelial growth factor expression and neovascularization in advanced gastric carcinoma *Y-B Kim, JY Han, TS Kim, PS Kim and YC Chu*

Crohn's Disease

1400 Decreased anti-*Saccharomyces cerevisiae* antibody titer by mesalazine in patients with Crohn's disease *N Oshitani, F Hato, T Matsumoto, Y Jinno, Y Sawa, J Hara, S Nakamura, S Seki, T Arakawa, A Kitano, S Kitagawa and T Kuroki*

Chronic Hepatitis C and G

1404 Status and natural course of GB virus C/hepatitis G virus infection among high-risk groups and volunteer blood donors in Taiwan *M-L Yu, W-L Chuang, L-Y Wang, C-Y Dai, S-S Chiou, M-H Sung, C-S Chang, S-C Chen, C-S Wang, T-T Chang and W-Y Chang*

1411 Chronic hepatitis C is mild in menstruating women *M Sartori, S Andorno, C Rigamonti, E Grossini, G Nicosia and R Boldorini*

1418 Efficacy of consensus interferon in the treatment of chronic hepatitis C *J-H Kao, P-J Chen, M-Y Lai and D-S Chen*

Color Doppler Ultrasonography

1424 Renovascular resistance assessed by color Doppler ultrasonography in patients with chronic liver diseases *M Koda, Y Murawaki and H Kawasaki*

Images of Interest

1431 Gastrointestinal: Double pylorus

1432 Hepatobiliary and pancreatic: Small liver tumor

1434 Hepatobiliary and pancreatic: Commentary

Case Reports

1436 A balanced 5:1 carbohydrate : protein diet: A new method for supplementing protein to patients with chronic liver disease *Y Ilan, T Sobol, O Sasson, Y Ashur and EM Berry*

1442 Parathyroid hormone-related peptide producing cholangiocellular carcinoma with a marked psammoma formation *S Yamada, H Sanefuji, H Morimoto, Y Harada, S Mine, I Morimoto and S Eto*

1447 Advanced hepatocellular carcinoma with distant metastases, successfully treated by a combination therapy of α-interferon and oral tegafur/uracil *A Miyamoto, K Umeshita, M Sakon, H Nagano, H Eguchi, S-I Kishimoto, K Dono, S Nakamori, M Gotoh and M Monden*

1452 **Notices**

1453 **Referees**

1456 **Author index**

1463 **Subject index**

H1 **Abstracts from The Third Western Pacific Helicobacter Congress**